



Substrate Data Sheet

1090 White Vinyl

General Discription: This is a topcoated flexible white vinyl film coated with a permanent pressure sensitive modified acrylic adhesive and backed with a two-side poly coated lay flat release liner.

Production Data	Value	Test Method
-----------------	-------	-------------

Physical Properties

Thickness (Mils[microns])	Film	3.5 (89) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)
	Adhesive	1.5-1.6 (38-41) +/- 0.1 (3)	
	Liner	6.9 (175) +/- 10%	

Dimensional Stability (%)	MD	1.75	Applied Shrinkage: 24 hour dwell time on aluminum panel and then 24 hours at 160° F (71° C)
	TD	1.20	

Adhesion Properties**

Ultimage Peel From Average	Oz/In	N/m	
Stainless Steel	113	1243	ASTM D 903 (Modified for 72 hour dwell time)
Acrylic	112	1232	
Glass	115	1265	
Polypropylene***	68	748	

Expected Shear	68	ASTM D 3654 Method A
		a. 1hr. Dwell
		b. 1 sq. in. surface
		c. 4 lb. load

** For guidance only, not to be used for setting specifications. Due to the custom nature of this product, the data presented are based on three or less production runs.

*** Sometime product shows zippy adhesion.

Track (gm/sq cm)	1080	ASTM D 2979
Expected Exterior Life	U.S. - Five years - There may be some yellowing after 2 years if no added UV protection. S.W. - Four Years*	
Service Temperature Range	-40°F to 176°F (-40°C to 80°C)	
Minimum Application Temperature	32°F (0°C)	
Storage Stability	Two years when stored at 70°F (21°C) and 50% relative humidity	

*The U.S. Desert Southwest includes Arizona, New Mexico, and the desert areas of California, Nevada, Utah, and Texas. The exterior life of the products is reduced due to the high solar energy exposure in these areas.

Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of LY.com products shall be used as a guide and do not reflect the specification or specification range for all particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no even constitute a warranty of any kind by LY.com All purchasers of LY.com products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of LY.com is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.